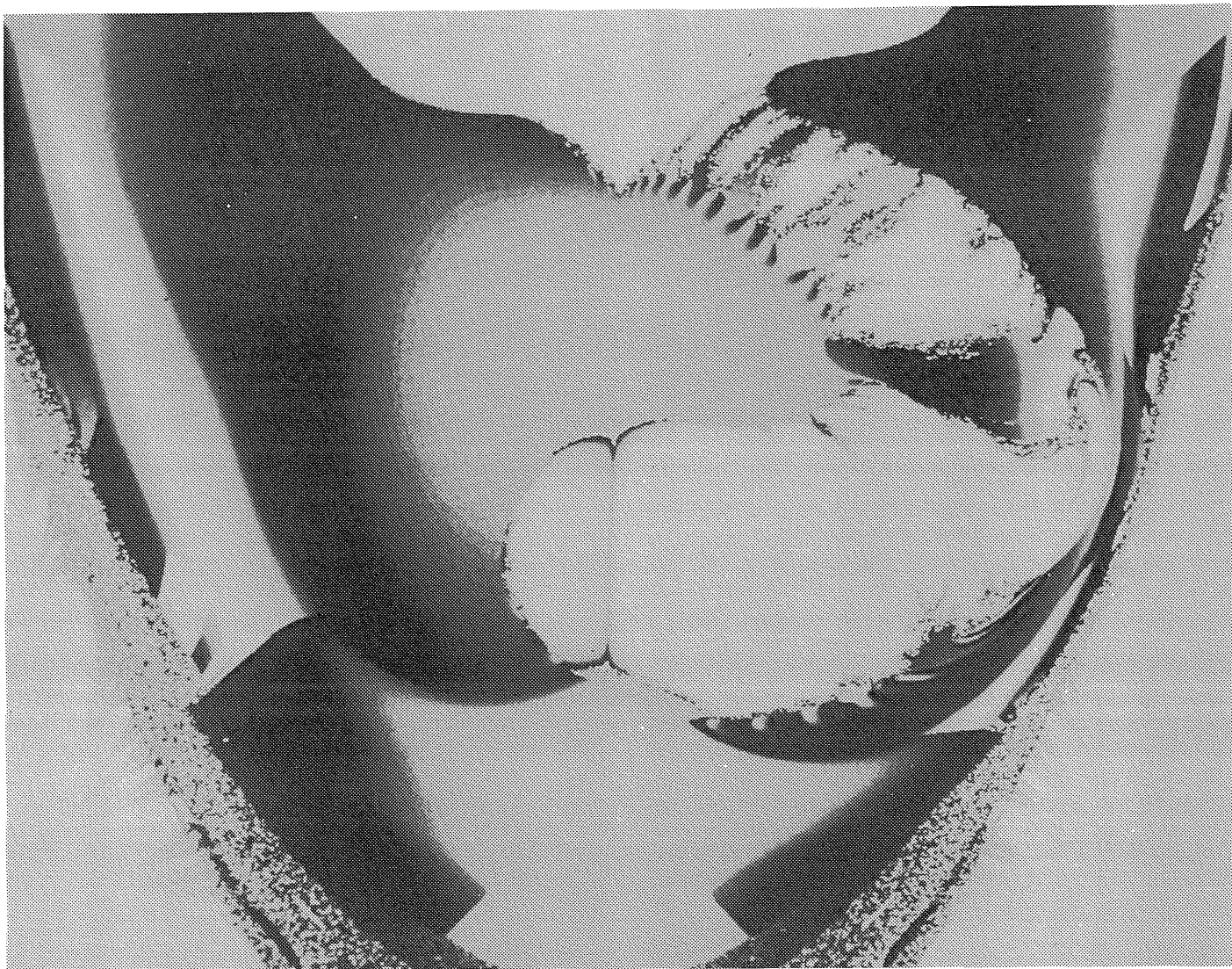


**Artists Using Science and Technology**

Ylem (Eye-lum): The primordial stuff out of which the universe emerged in the Big Bang

**Ylem Newsletter**  
Vol.11, No. 5 June 1991

*"Genetic Composition #73," fractal by Jeffrey Ventrella, 1989*



## ***Genetic Compositions by Jeffrey Ventrella***

My images are pictures of mathematical functions. The functions are the genetic codes determining the growth of the forms. The computer is the petri dish. As programmer/artist, I practice what Peter Oppenheimer calls "aesthetic selection," as compared to Darwin's natural selection. The composition of these images occurs on the level of genetic descriptions as opposed to occurring in the spatial domain which is the place most art is produced. It is an artform of designing seeds.

Less than a decade ago, the Mandelbrot set was either invented or discovered, it is hard to say which. It has been called the most complicated object in mathematics. It has an

infinity of detail at all scales of magnification and a highly organic form. My images are the results of mutating the Mandelbrot function for the sake of visual-metaphorical impact.

It is an amathematical technique: it disobeys the conventions of complex analysis, the branch of mathematics that gave birth to the set. If you were to rewire a computer so that  $2+3=6$  you would be doing what my program does to the mathematics of complex numbers. I have attached conceptual "tuning knobs" to arbitrary parameters in the function. These tuning knobs have descriptive names. They are treated as poetic elements.

The Mandelbrot set is an icon of the fractal revolution. Recently, the media have become infiltrated with Psychedelic

*Continued on page 2*

# One Decade: A Time of Reminiscence and Foretelling

Here we present some members' reminiscences of Ylem's first ten years which actually belonged in our last issue marking our tenth anniversary...

**Bob Ishi, who attended our first meeting writes:**

It may be difficult for some to believe, but Ylem was actually active five years before personal graphic computers like the Macintosh and Amiga were

Stanford and to local Silicon Valley temples. At Ampex Glenn Entis gave us a tour of the lab where he was working on a computer graphics system. Huge and intimidating, the setup looked like a set for a sci-fi movie. Computers, terminals, and banks of loudly humming disk drives took up a large part of the air-conditioned room. Most of us thought, "This is exciting, but way

**Julian Rowan of Newtonville, Ontario, Canada, writes:**

Here is an old member from the end of Ylem's first year, who is now in full blush: for I did foolishly say, and all too outrightly, in the midst of extolling the exciting arrivals and also the inevitable demises of high profile art/science movements which arose.....and fell, in the lively '50s, '60s and early '70s, that "We'll see where you are in ten years!!" [He predicted we'd be gone in five.—ed.] At least I put you in exceedingly good company. Just to mention a few: Groupe Zero (1957); GRAVE (Group de Recherche d'Art Visuel-1960); E. A. T. (1966). Well. Here we are at the end of that first decade, with all flags still flying. And it's been good fun; lots of neat stuff. So congrats to all those who kept the presses running.

Trudy did nobly write in ardent defense of the 'painter-by-hand.' And just recently David Durlach, in 'Affectionate Technology Part 2' has urgently called for works balanced between "emotional/relational, and intellectual/computational sophistication." I may also somewhere along the line have inferred that the celebration of hi-tech especially for its own sake may not be the best that Ylem can be. Is it possible that high-tekking it, generally, is unlikely to be the high road of the future? We have problems—of being once, twice and thrice removed from life and life processes. These are things which we could probably pursue in the next decade.

Ylem

Inversions of  
"Ylem": right by  
Russell Reagan;  
below by  
Scott Kim

developed. The earliest meetings of Ylem were informal, moved locations like a nomadic yurt, and consisted of a small, but intensely motivated group. The atmosphere around Silicon Valley, with its explosive developments in electronics (video, microelectronics, microprocessors, etc.) intoxicated us all. But there was an uneasy division—the techies, excited by the technology itself, and the artists—who were more interested in exploring possibilities to extend their artistic vision. And so a small group, Ylem, was born.

Poems on science were read. Ken Knowlton, an early pioneer in computer art, came to tell us his sober and cautionary philosophical views on the future of computer art. We took field trips to lie inside of Prof. Robert McKim's "Imaginarium" dome at

beyond access for the independent artist." How things have changed! As an afternote, Glenn and his friend Carl Rosendahl (both early Ylemmers) went on to found Pacific Data Images, a major computer animation house.

As for bizarre Ylem experiences, I'll never forget Dave Dameron's early computer-generated sculptures. Dave was creating incredible, mathematically-shaped sculptures out of large blocks of wax. He programmed a milling machine to carve out the forms at home. One summer day, he brought some of his pieces to show us at an Ylem meeting. When I went to help him get them out of the back of his car, we were stunned to find that the heat inside the car had melted the sculptures into bizarre shapes (now we would probably call this randomness enhancement!). He went on to cast sculptures in a more environment-tolerant medium.

Now we have "Virtual Reality" and the emergence of Mondoids and Cyberpunks. Where is it all going? We have just waged an incredibly hi-tech war, but can/will we use this technology to create a higher civilization? Stay tuned in to Ylem for clues to an answer. "Through his [and her] sensitivity, the artist becomes the seismograph of events and movements pertaining to the future." —L. Moholy-Nagy, *Vision in Motion*, 1947

YLEM

**A note from Alex Nicoloff:**

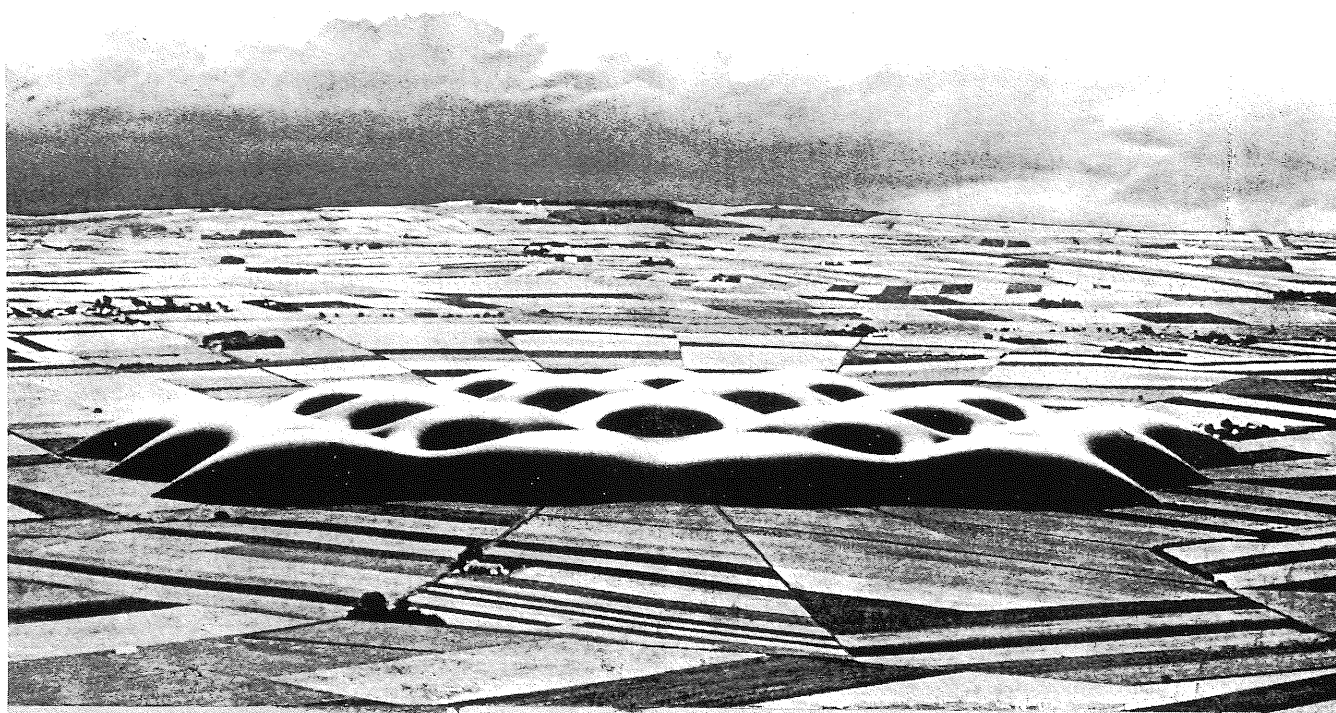
A toast to Ylem for encouraging artists in their scientific viewpoints and in the frenetic technology that goes with it! Over the last ten years, Trudy Reagan has led efforts to widen the venues through which artists may reach the

*Continued on page 6*

## **Genetic Compositions, continued**

Baroque, a wild, energized artform springing straight from pure mathematics. I have brought the Mandelbrot set into my studio with an orientation towards historical trends in art, and the expressive concerns of image creation. Influences of Paul Klee, Francis Bacon, Georgia O'Keeffe, David Lynch, and the movements of Surrealism and Abstract Expressionism are more a driving force than are mathematical truths.

# Grace in Space: An Evening of Talks and Interactive Art Installations



Futuristic art from AGAR: A "genetically engineered monumental art-work grown from a single seed pictured at its installation in Indiana. (It's a mile long and totally edible—a perennial)."

## Grace in Space: An Evening of Talks and Interactive Art Installations Sat., July 13

**Interactive Exhibits, 6-10 pm; Lectures, 7 pm.**  
**Center for Extreme Ultraviolet Astrophysics,**

2150 Kittredge (one block from the  
University of California), Berkeley  
Entrance donation \$5 (members of Ylem  
and I.S.A.S.T., \$2)

### Lectures

Dr. Roger Malina, astronomer and executive director of the center, will speak on "Orbital Art" (artworks designed to be launched into space, seen from space, talked to in space, etc.). Dr. Malina is the director of the International Society for Art, Science and Technology and editor of the journal *Leonardo*.

Stephen Soreff is known to most Ylem Newsletter readers as the editor of AGAR (Avant Garde Art Review). AGAR is a one-page art review of fictional artists working in today's cutting-edge

technologies at some distant (but not unforeseeable) point in the future. Soreff manages to spoof today's art criticism while presenting a not-implausible picture of artists and art works extrapolated from the edge of today's technology. It's a Jules Verne update straight from Soho. AGAR's issues include one on a "genetically-engineered monumental art—work grown from a single seed pictured at its installation in Indiana." (pictured above)

### Interactive Art

A robotic sculpture by Michigan artist James Pallas titled "Siren Heart" will be awaiting your approach with its sensors on and processors ready. There will be a showing of the computer-generated video "Dance with the Wind" by artist Carolyn Lockett. Jim Hall's interactive installation "Point of View" will respond with its repertoire of light and sound according to how its sensors perceive your presence. In the realm of visiting "alternate worlds," Bill Fleming, Hans Reiser, and Beverly Reiser's new chapter of "Life on a Slice" will be

ready to capture your live image and let you flounder or frolic in a pixelated world. A collection of artworks in various "new-tech" media, are currently on display throughout the Center for E.U.V.A.

The Center for Extreme Ultraviolet Astrophysics is a laboratory scheduled to launch an orbiting telescope next Fall that includes a satellite-monitoring station. The event is co-sponsored by Ylem/Artists Using Science and Technology and the International Society for Art, Science and Technology (ISAST). Info: Beverly Reiser (Ylem President), (415) 482-2483

### Other Ylem Dates...

(see Calendar, page 4)

**June 1, 2 pm**

**Ylem Mailing Party in Orinda**

**July 24, 8 pm**

**Ylem "3-D" Forum, San Francisco**

**July 31**

**Deadline for 1991-92 Directory**



## Events

June 1, 2pm

### Ylem Mailing Party

Make new friends while mailing information about *Directory of Artists Using Science and Technology* to potential members. At home of architect Fred Stitt, accessible by BART. 35 Evergreen, Orinda; Info: Bev Reiser, (415) 482-2483; Rides from BART: (415) 254-0639

June 3-5

### The New Designer: Computer Graphics for Design (New York City)

For high-level design professionals using computers. Fee: \$185-\$755. Info: Computer Graphics for Design, 45 Stephenson Terrace, Briarcliff Manor, NY 10510

June 5-7

### Engineering and Art Symposium (Aix-en-Provence, France)

Engineering and art, architecture and music. Presenters include Benoit Mandelbrot, "father of fractals"; Jean-Claude Risset. Info: J. Pullino, IUSTI, Centre de St. Jerome, Case 162, Av. Escadrille Normandie Niemen, 13397 Marseille Cedex 13, France; tel. 91 28 81 47

June 7-8

### Man-Machine Interaction Workshop (Pisa, Italy)

International workshop on man-machine interaction in live performance computer music, computer graphics, robot dance. Info: Leonello Tarabella, Computer Music Dept., CNUCE/CNR, via S. Maria 36, 56126 Pisa, Italy; tel. 39-50-593276; music@icnucevm.cnuce.cnr.it

June 22

### Burning Man

At Fort Mason in San Francisco help test Burning Man, the giant effigy to be burnt on the Nevada Desert on Labor Day weekend. Info: Louis Brill, (415) 664-0694

June 22-28

### AI in Design Conference (Edinburgh, UK)

First International Conference on Artificial Intelligence in Design at Royal Museum of Scotland. Info: Helen Hodge, AI in Design '91, PO Box 63, Westbury House, Bury St., Guildford, Surrey, GU2 5BH, UK; tel. 44-483-300-966; fax 44-483-301-563

July 13, 6 pm

### Grace in Space, An Evening of Talks and Interactive Art Installations

will take place in Berkeley. Sponsored by Ylem and ISAST. Please see page 3 for details.

July 14-26

### Computer and Art International Summer Academy (Lugano, Switzerland)

The theme of dreaming will be explored in a collaborative way in the visual and performing arts using advanced information technologies. Faculty includes Ylem artist Joan Truckenbrod. Location: Franklin College Switzerland, Lugano. Tuition: SFrs. 750 per course per wk. (SFrs. 500 for university-level students); room: SFrs. 220 per wk. College credit. Info: Dr. James Finkelstein, George Mason University, Fairfax, VA 22030; (703) 323-2400; fax (703) 764-6716; Bitnet: jfinkel@gmuvox

July 8-19

### International Summerschool Computer Animation (Groningen, The Netherlands)

Sponsored by SCAN (The National Institute for Computer Animation in The Netherlands). Hands-on course using Macs and Amigas will be taught in English. Fee: Hfl. 3000,- excluding V.A.T. Info: Barbara Warner, Stichting Computeranimatie, Westerhavenstraat 11-13, Postbus 1329, 9701 BH Groningen, The Netherlands; tel. 31-50-138343; fax 31-50-138242

July 24, 8 pm

### Ylem Forum: 3-D: Of Art and Opportunity

Louis Brill is co-ordinating this forum on the applications of 3-D as a creative art technique. Demonstrations of 3-D in photography, multi-image, television, film, phscolograms and pairs of paintings; and the Holography Institute will exhibit holograms.

McBean Theatre, The Exploratorium, 3601 Lyon St., San Francisco, CA 94123; Info: Louis, (415) 664-0694

July 25-27

### Stanford Conference on Design

Famous graphic, industrial, and architectural designers gather with visionaries and deep thinkers on the subject. Limited to 300 participants. \$470. Info: Beverly Smith, Stanford Conference on Design, Bowman Alumni House, Stanford, CA 94305; (415) 723-2027; fax (415) 723-3145

All Events and Exhibits occur in the San Francisco area unless otherwise stated.

July 29 - August 2

### SIGGRAPH '91 (Las Vegas)

Huge and famous annual conference on computer graphics by manufacturers. Super high-end computer graphics exhibit, animation shows. Info: Lois Blankstein, SIGGRAPH, ACM HQ, 11 W. 42nd St., NY, NY 10036; (212) 869-7440; ankstein@um.cc.umich.edu

"Breaking through the Social Fabric," computer art by Lucia Grossberger, 1991



Early Registration Advised

### Technology Entertainment Design 3 (Monterey, CA)

TED3, run by designer and author Richard Saul Werman, is top-notch (famous, thought-provoking presenters), intimate (450 participants), and expensive (\$1000). Feb. 20-23, Monterey, CA, at the Conference Center. Info: TED Conferences, Inc., 59 Wooster St., NY, NY 10012; (800) 521-4041

## Exhibits

May 29-Sept. 14

### Electronic Comix & Computer Art

The computer as a cartoon artist's tool. Also call to find when the artist-in-residence for the month will demo. Cartoon Art Museum, 665 3rd St., San Francisco, CA 94107; (415) 546-9481

Through May 31

### NASA (Not Actually Scientific Achievements)

These paintings by Ylem founder Trudy Myrrh Reagan look like the Earth and Moon from space. Temasek Restaurant, 1555 Clement St., San Francisco, CA; (415) 387-6556

Through June 11

### Hispanic-Flavored Computer Art

Ylem member Lucia Grossberger shows endangered and imaginary animals, computer art inspired by Andean textile designs, and mother images inspired by church icons. Also see her work in India Joze Restaurant in same building. Coco Gallery, Santa Cruz Art Center, 1001 Center St., Santa Cruz; (408) 459-6944

Through June 14

### Computer Art Show (San Diego)

Includes Ylem artist Barbara Nessim. Verbum Gallery, 670 7th Ave. 2nd floor, San Diego, CA 92101; (617) 233-9977

Through June 30

### North by Northeast

Show curated by Jeff Nathanson of Contra Costa County artists includes a couple of tech artists, Jeff Sully and Clayton Bailey. Richmond Art Center, Barrett & 25th St., Richmond, CA; (415) 620-6772

Through June 30

### Computer Art Show

Ylem members Lucia Grossberger and Maggie Bollock show computer art. India Joze Restaurant, 1001 Center St., Santa Cruz, CA

July 8-26

### 3rd Annual Computer Art Exhibition (Honolulu)

Show includes Ylem members Rodney Chang and Daria Barclay. Sponsored by the mayor and The Hawaiian Computer Society. Honolulu City Hall

## Legal Notice

At the January 16, 1991 Ylem Forum at the Exploratorium, Ylem presented (according to the program handed out at the Forum): "Fractal Lumina: The Moody Blues. Jim Stark discusses his special editing techniques in this video of fractals and rock music by Aeon Productions (Jon Lee, Artistic Director, Jim Stark, Assistant Director)."

No entrance fee was charged at the forum and none was paid to Jim Stark. We are complying with the request of the lawyer of Jon Lee by printing the following notice:

The work was presented without the knowledge and consent of the author, Jon Lee, and the work is protected by copyright. All inquiries regarding the work should be directed to Aeon Productions, 38 Miller Ave., Mill Valley, CA 94941; (415) 383-3200

## Opportunities

Deadline May 31

### 10th Annual September Competition

Awards. Open to all artists 18+. All media. \$15/ up to 2 entries; slides if 2 or 3-D media, videos if film/video or experimental media. Show Sept. 7-Nov 9. September Competition, Alexandria Museum of Art, PO Box 1028, Alexandria, LA 71309-1028; (318) 443-3458

Deadline June 15

### Art in Space

A small package of 100 artworks will be chosen for launch from the MIR space station, autumn 1991. Get your work out there! A global, transnational cooperative event—the ultimate in mail art. All the junk in space represents only the engineering and science activities of humankind, so artists, put your two cents' worth in! Theme: "Vision of Space." A privately funded project. Info: Arthur Woods, PO Box 180, 8424 Embrach, Switzerland

Deadline July 31

### 1991/92 Directory of Artists Using Science and Technology

The *Directory* is an illustrated booklet listing all (over 200) Ylem members. Pictured is the work of artists using diverse contemporary and electronic media from microprocessors to infrared sensors, plus science images in the fine arts. The *Directory* is updated annually to facilitate networking among artists, collectors, galleries, and educators. The media of each member are also described. Members may not know that the *Directory* project is supported entirely by the fees charged to publish pictures of works, or that it falls into the hands of curators all over the world. Thus, it is of mutual benefit when you plan to spotlight your work with a black-and-white picture that reproduces well. Another note: e-mail addresses should be given in the same form used in the *Ylem Newsletter*.

All Ylem members will receive the *Directory* in the autumn as part of their membership and it lists all whose memberships are current as of July 31. If you would like your work pictured in the *Directory*, please send all B&W photos and photo fees (and SASE if you want photo returned) to the Ylem address by July 31. (Please see form mailed with last month's Newsletter for fee schedule). Ylem, PO Box 749, Orinda, CA 94563. Info: Beverly Reiser, (415) 482-2483

**Deadline Late Summer**

**Travelling Digital Video Exhibit**

Art Com seeks Macintosh-based digital video art for travelling exhibit. First stop: Tokyo in autumn '91. Display will have capability for motion, color, sound, addressability/interactivity. Info: **Carl Loeffler, PO Box 193123 Rincon Center, San Francisco, CA 94119; (415) 431-7524; fax (415) 431-7841; artcomtv@well.sf.ca.us**

**Art Brokerage House**

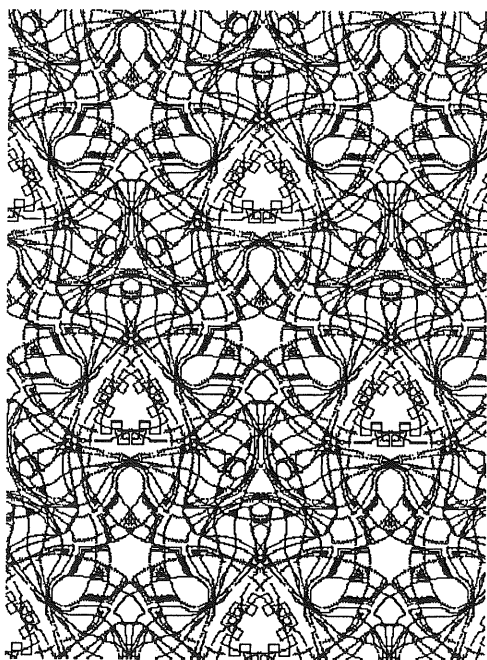
Specializes in artists whose works employ or embody technology or scientific methodologies. A market for our works! Info: **Patricia Peyton, 1714 Stockton St., San Francisco, CA 94133; (415) 362-5330; fax (415) 362-3528**

**Techno-Art Exhibition**

Yearlong exhibit planned in a new gallery of technically derived or inspired art. Unique approaches, fledging artists sought. Send slides etc., descriptions and resumé, SASE to: **Odesso, 378 Hayes St., San Francisco, CA 94117; (415) 626-5210**

**Space Arts and Literature Bibliography**

If your work is "way out there," should it be listed here? Info: **George James, PO Box 7122, Washington, DC 20044**



above left: "Street Scene," computer art (CrystalPaint)

by Russell Reagan

above right: Inversion of "Ylem" by Myrrh

**Ylem Color Showcase**

Ylem is beginning a tradition of showcasing the latest in reproduction technology in its publications. Is your company or one you know of doing state-of-the-art work in color printing? A donation of services to Ylem, a non-profit group, will reach a select group of artists, curators and graphics professionals. Please contact us about donating color work for the cover of the 1992 *Directory of Artists Using Science and Technology* going to press late this summer, or the cover of an issue of this newsletter. An article acknowledging the contribution and explaining the technology will be in the publication. Contact: **Beverly Reiser, Pres., 6979 Exeter Dr., Oakland, CA 94611; (415) 482-2483**

**Help at The Garage**

Ylem member Bob Grimm, technical manager of The Garage museum which spotlights high technology in Silicon Valley, encourages you to enjoy its interactive displays on biotechnology, bicycles, microelectronics, space and materials research. To support this fledging museum you may want to volunteer a couple of times a month on weekdays as a docent during the summer months, or to keep exhibits running (flex time). Holographers sought to debug setup for a beginners' holography course to take place in early June. Speak to **Julia Rose (408) 279-7175**, volunteer co-ordinator. Zany tech gift items sought for museum store. Join the museum for \$35 a year (teachers, students, \$20). **The Garage, 145 W. San Carlos St. (downtown), San Jose, CA 95113; (408) 279-7150**

**Color Workshops**

Ylem member Tom Lechleiter will give four Monday workshops in June through the Peninsula Art Assn. and also the Belmont Art Assn. (both in Belmont). He is a specialist in color perception and psychology, and has taught watercolor for many years. \$20 series, \$6 per session, \$3, half-day session. Info: **Lechleiter, 1211 So. "B" St. #1, San Mateo, CA 94402; (415) 345-8775**

**Full Circle: Panoramas of Paris, Venice, Rome, Siena and Kyoto**

New book by Ylem member Kenneth Snelson shows dizzying, transforming views taken with a camera that allows a 360° look at wonderful architectural spaces. (It's the same Snelson who does tensegrity sculptures and visualizes the atom). \$39.95, **Aperture Books, 20 E. 23rd St., NY, NY 10010**

general public. The recently completed half-hour videotape has become Ylem's showpiece, available to a significantly larger audience outside of the Bay Area.

*The music videos that Alex and Martha Nicoloff make using prismatic light is one of the features on the Ylem Video.*

3/4" tape is available for rental for \$15. Info: **Trudy, 967 Moreno, Palo Alto, CA 94303; (415) 856-9593**



**The Best of TED2**

The Technology, Entertainment, Design Conference 1990 is documented on videodisc (\$200) and on three videotapes (\$175). All-star cast includes computer designers Alan Kay, Jaron Lanier, Ted Nelson; artists Laurie Anderson, Herbie Hancock, Bob Abel, Peter Bradford; and designers Richard Saul Werman and Payson Stevens. Include \$3 shipping. **The Voyager Company, 1351 Pacific Coast Highway, Santa Monica, CA 90401; California residents call 1-800-443-2001, out-of-state call 1-800-446-2001**

**From Digital Image to Full-Color Printing**

Service bureau, pre-press and color print shop in one organization permits good control over printing results, as Ylem readers saw in last month's issue printed there. Files can be sent e-mail. Contact: **Robert Hu, Digital Graphics, 3527 Menlo Park, CA 94025; (415) 306-0770**

**Computing Graphics Center**

A new service bureau with desktop publishing, multimedia presentations and digital art gallery. **Computing Graphics Center, 389 Valencia St., San Francisco, CA 94103; (415) 863-0937**

**Marketing Solutions**

Directors Guild Publishers, which publishes marketing directories for artists, announces a new service of personal evaluations of individual artists' work to suggest marketing plans. Consultants are Constance Franklin, founder and editor of the directories, and Sue Viders, consultant for Color Q color printing service and Directors Guild. Both have many years' experience. Info: **Directors Guild, Marketing Solutions, PO Box 369PR, Renaissance, CA 95962; 1-800-383-0677**

Some items in *Opportunities* reprinted from *Art Calendar* (the monthly marketing and career management journal for artists, PO Box 1040 Great Falls, VA 22066, Subscriptions \$29/yr.)

*Louis Brill, who is planning a spectacular July 24 Forum program for us on 3-D, writes:*

Ylem: 1) the primordial material of the universe; 2) an organization of like-minded artists weaving images and experiences from the primordial materials of electronics, optics and computers, as well as fine art and craft. Stretching the limits, both in traditional and post-modern high-tech forms, Ylem members have created new ways of looking at the universe.

Ylem—the stuff of the universe—when all is said and done is nothing more than an idea. We might not know whose idea this is, but what the hell, we can certainly improve on it. *Ten years from now:* Ylem will achieve total liberation with a permanent exhibit hall where members from around the world can continually display their improvements on the “stuff” of the universe.

### Write with Light on T-shirts

NEOVIDEO shirts have a large area that glows in the dark. Kit includes a penlight to write on it at dimly-lit parties. Very interactive—can “erase” instantly and start over, pass the pen to others. Washable 100% cotton. Special price to *Ylem Newsletter* readers: \$21.50 postpaid. Info: **Purple Sun, Paul Cohen, 1803 Mission #336, Santa Cruz, CA 95060; (408) 458-1510**

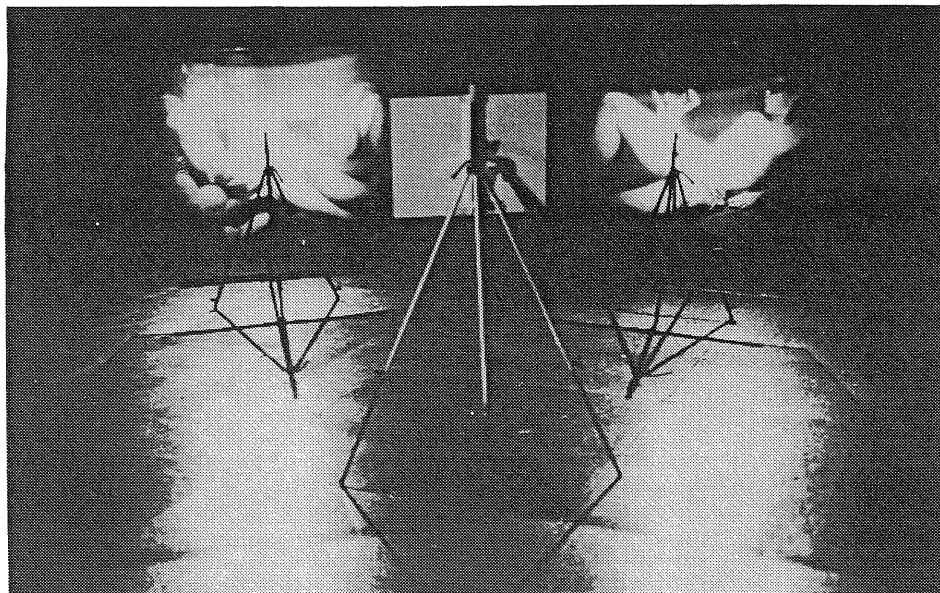
### “Planet Building” Teacher Workshops

Maggie Gwaltney, a teacher in San Jose, CA is seeking hands-on activities for school children in her area from artists and tinkers relating to the Planetary Sciences Conference at Stanford in Nov. 1991. The idea of making their own planets is bound to stimulate the kids. Contact: **Maggie V. Gwaltney, 886 Castlewood Dr. #3, Los Gatos, CA 95030**

### Pulsar

A bimonthly journal published by the International Asso. for the Astronomical Arts, a group of 180 artists and visionaries from 16 countries. The IAAA has a travelling exhibition that debuted in Moscow in Apr. '89, and will come to the National Air and Space Museum/Smithsonian Institution in 1991. Assoc. membership \$35/yr. Info: **IAAA, Kara Szathmary, PO Box 354, Richford, VT 05476**

*“Aire Technoculturelle” by Philippe Boissonnet, 1990*



## News of Members

Lucia Grossberger is helping Cogswell Polytechnical College in Cupertino, CA to develop a curriculum for a new program in computer animation and multimedia leading to a Bachelor of Science degree ... **Diane Fenster's** *Persephone*, (seen in *Ylem*, Jan. 1991), received “Best of Show” from *How* magazine's first annual contest in computer art and design. (She also created last month's *Ylem Newsletter* cover art which was Lots of Fun.) ... The works of cosmic painter **Dave Archer** will be seen in the new *Star Trek* movie. Look for them also in the TV series. He will also be interviewed on *Late Night With David Letterman* ... Glass works by **Zoe Adorno** and **Fern Fritz** graced San Jose Art League's recent Invitational Exhibition ... While in Portland, OR for her retrospective show, **Trudy Myrrh Reagan** met with **Daria Barclay**, who can be described as a computer arts activist, continually creating exhibit opportunities in Oregon for this medium ... **Vedder Wright** has received his degree in structural topology from the University of Montreal. At the Third Biennial Arts & Technology Symposium in Connecticut in April **Jeffrey Ventrella** spoke on his work with fractals ...

## Holographic Installation by Philippe Boissonnet

Philippe Boissonnet, born and educated in France, is pursuing his art career in Canada, where he has taught at Concordia and Ottawa Universities. It was after his first stay in Montreal in 1982 that he discovered his real interest was in integrating new technological images into his paintings and drawings. He received the Greensfields Foundation Award the following year. In 1984, concurrent with experimentation using color copy machines, he took a course in holography at Fringe Research Holographics Lab. He was an artist-in-residence there in 1984, 1986 and 1987. He has received several grants from the government of Quebec.

A holographic installation by Philippe Boissonnet was featured in a recent survey of Canadian holographic art at the Museum of Holography in New York (See related story above.) ... **Bruce Beasley** lectured on his sculpture in Atlanta, GA during the North American Goldsmiths National Conference in March.



Please send a  
**membership  
application** and  
sample newsletter  
to (me) (my  
friends) at:

☐ Sample issue &  
application only (free)

NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

☐ I enclose \$ \_\_\_\_\_ for membership (see above)

**Yearly membership rates:**

U.S. Individual      **\$30**  
U.S. Institution     **\$45**  
U.S. Student or Senior   **\$20**

Canada/Mexico add **5 US\$** to U.S. rates; all  
other countries add **15 US\$** to U.S. rates.  
Membership includes 12 issues of the *Ylem  
Newsletter* & listing in the *Artists Using  
Science and Technology Directory* which  
you will receive in the Autumn.

**MAILING LABELS  
OF YLEM MEMBERS**

are available to Ylem  
members for \$20.  
Info: Fred Stitt,  
(415) 254-0639;  
or send \$20 with  
your request to  
address below.

**Ylem** is a non-profit, networking organization.

President  
Beverly Reiser

Vice-president  
Trudy Myrrh Reagan

Secretary-treasurer  
Fred Stitt

Membership development  
Eleanor Kent

Member-at-large  
Cynthia Kurtz

Programs  
Trudy Myrrh Reagan  
Louis M. Brill

Advisory Board  
Robert Coleman, *Master Plan Strategies*

Theodosia Ferguson, *International  
Society for the Arts, Sciences, and  
Technology*

Nancy Frank, *Frank Relations*

Roger Malina, *Director, Center for  
Extreme Ultraviolet Astrophysics*

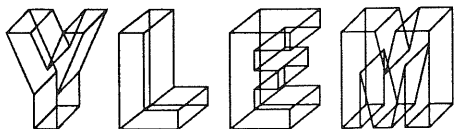
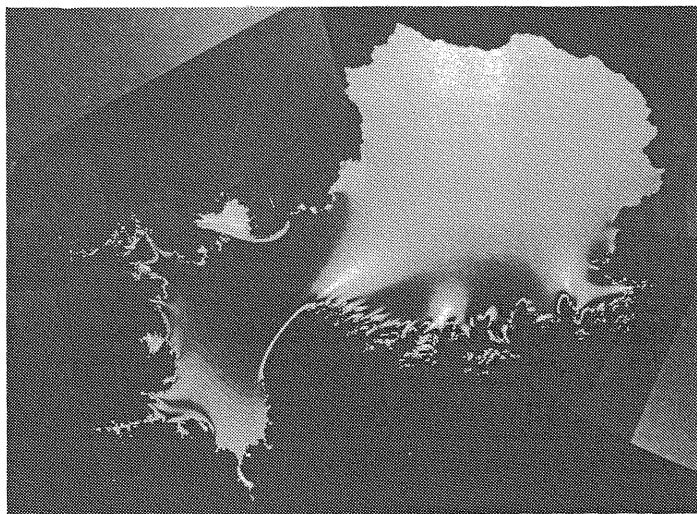
Larry Shaw, *Exploratorium*

Stephen Wilson, *Art Department,  
San Francisco State University*

Gary Zellerbach, *DZ Company*

Newsletter staff  
*editor, production:* Trudy Myrrh Reagan  
*graphic design:* Russell Reagan  
*data wrangler:* Jon Alexandr

"Genetic Composition" fractal by Jeffrey Ventrella, 1989



**Artists Using Science and Technology**

Return address (memberships/subscriptions, sample Newsletters):

**PO Box 749, Orinda, CA 94563**

For submissions to this publication or regarding its content, please see below.

**Contributions are most welcome**

The Ylem Newsletter needs Ylem members' art and articles, notices of events, exhibitions, etc. Art submitted must reproduce well with b&w copy machine. If you have done art on a Macintosh, you may send us a disk. Please include title, date created, medium and phone number. Articles should be 400-800 words long, preferably on a Mac disk. Send to **Ylem Editor** (see below).

**Ylem's Two Addresses:**

Submissions and notices  
for Newsletter write:

**Ylem Editor**  
**967 Moreno Ave.**  
**Palo Alto, CA 94303;**  
**Trudy, (415) 856-9593**

Sample Newsletters,  
membership info., any other  
Ylem business, write:

**Ylem (main office)**  
**PO Box 749**  
**Orinda, CA 94563**

©1991 Ylem

**June  
Newsletter**

ADDRESS CORRECTION REQUESTED  
RETURN POSTAGE GUARANTEED

# THE 1991/92 DIRECTORY of ARTISTS USING SCIENCE AND TECHNOLOGY

**DEADLINE: JULY 31 !!!**

The **DIRECTORY** is a book illustrating the work of nearly 300 Artists using diverse contemporary and electronic media from microprocessors to infrared sensors. The artists of Ylem create works ranging from multi-media sculpture with sensors to interactive environments, performance art, sonic art, computer graphics , etc. This book is updated annually with the intent to facilitate networking among artists, collectors, galleries, and educators. After each artist's address, their Art media is described.

The Directory comes to Ylem members as part of their membership and lists all artists whose memberships are current on **July 31**. If you would like to print a photo of of your work , all B&W photos and photo fees (see list below) are due on July 31. If you would like to make any changes in your "Art media" listing please send it marked Attn: Jon Alexandr. If you want your photos returned please include a self-addressed and stamped envelope.

I have enclosed :

- \$15 for a 1/4 page photo ( 3 1/2 " w X 4 1/2 " h maximum)
- \$30 for a 1/2 page photo ( 7 1/2 " w X 4 1/2 " h maximum )
- \$60 for a full page photo ( 7 1/2" w X 9 1/2 " h maximum )

---

NAME

---

ADDRESS

---

STATE

---

COUNTRY, ZIP

---

FAX, E-MAIL

---

DESCRIPTION OF ART MEDIA ( if new or changed from previous publication )

---

---

---

---

---

---

---

Send the above along with your photo to :

**DIRECTORY of ARTISTS  
USING SCIENCE AND  
TECHNOLOGY**

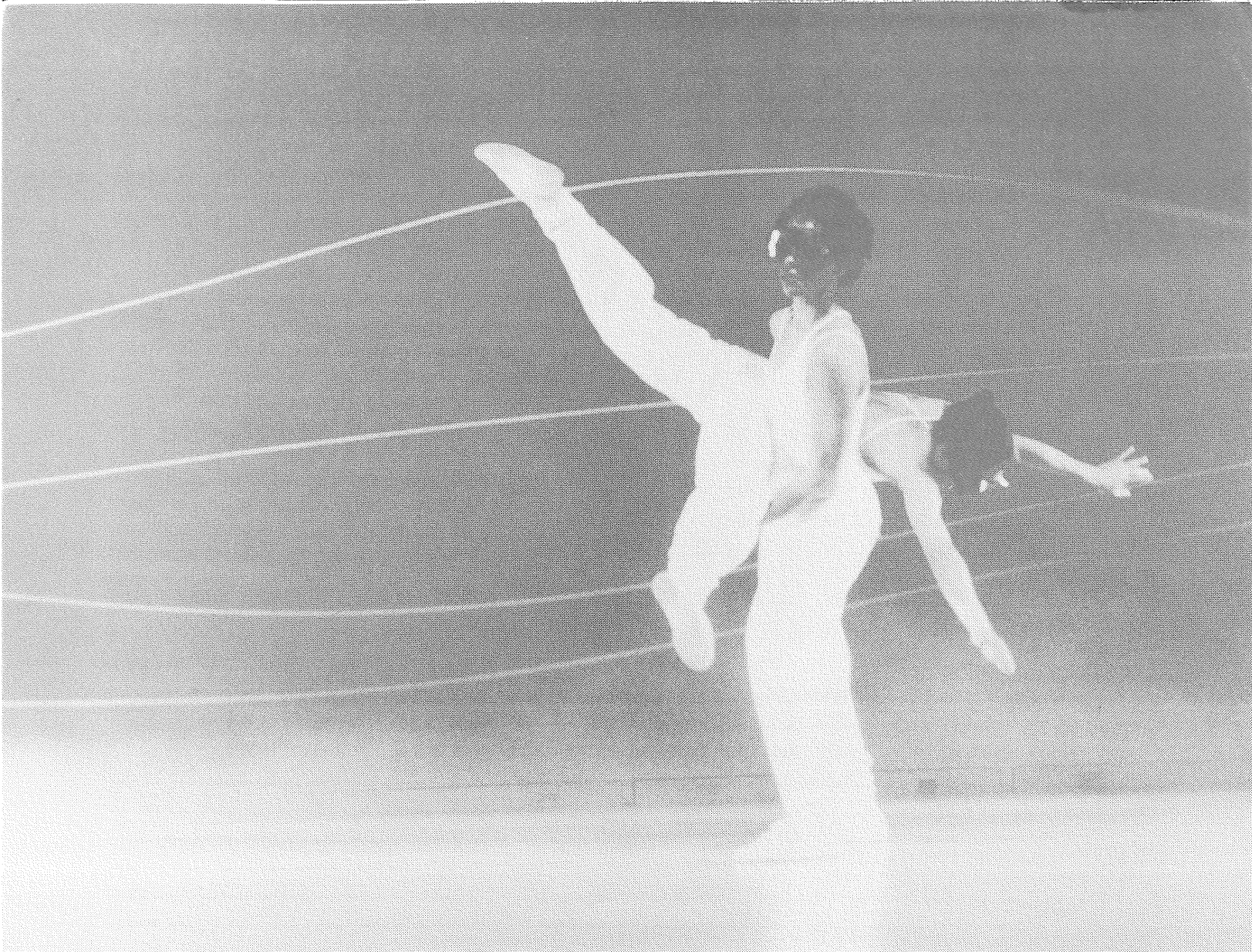
P.O. Box 749  
Orinda, CA 94563

Membership in YLEM includes your listing in the next **Directory of Artists Using Science and Technology** AND the monthly **Ylem Newsletter** for \$30 for one year. Student membership is \$20. Overseas recipients, please pay an additional \$15. postage. Canada and Mexico please pay \$5. postage.

Members can buy the current **Directory of Artists Using Science and Technology** at \$6, non-members at \$15. Overseas , Canada , and Mexico please pay an additional \$3.







*detail from a work by Robert Martin*

## WHAT IS "YLEM"?

It's a thriving organization of artists and art lovers who look to science and technology for ideas and inspiration.

That particularly means artists who work with video, ionized gases, computers, lasers, holograms, robotics and other new media. It also includes artists who use traditional media in new ways.

Ylem helps keep members informed of opportunities to show their work in upcoming exhibits, competitions, conferences, etc. It also brings members' work directly to the public through its own publications, events and exhibits.

The membership includes many well-known figures in the arts and sciences, as well as collectors, educators, students, art agents, architects and engineers, physicists and mathematicians.

Diverse techno-aesthetic interests are demonstrated every other month at the Ylem Forums. They include presentations by practicing scientists who appreciate the aesthetic values within their disciplines, and artists who enjoy the science and technology that underlie all art.

Ylem's feature annual publication is the *Directory of Artists Using Science and Technology*. This is a directory of the over two hundred current members of Ylem. The directory brings these artists into contact with curators, art collectors, gallery owners, educators---and other artists.

Ylem also publishes a monthly newsletter that features short articles about and by members on the tech-art scene. The Ylem Newsletter lists the latest information on exhibits, openings, art opportunities, forums, and networking events. Events include visits to studios of creative figures in the arts and sciences.

PO Box 749, Orinda, CA 94563